

SEQUENCE LISTING

<110> Avalon Pharmaceuticals

<120> Prostate-Specific Proteins Expressed in Cancer and Methods of Use Thereof

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<151> 2003-12-22

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| gtgcccggagc | cccgccctgc | ctggccctgt | gaaggccact | ctgggcgttt | gggtggggcgt | 2940 |
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| cgagggctca | gagctcagct | cccactggac | acccttcacg | gttcccaagg | ccagccagct | 3180 |
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| ctgcgagcag | cgtcctttc | ctttccctc | aggcagcgcc | tgtgtgaacc | gctggctgt | 3300 |
| gttgccttc | atctctggc | acattgcctg | tttccccca | gcccggctt | cttccttcag | 3360 |
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| gcctccccag | gcccctggac | acgacagtcc | tcctcaggca | ggtggcttt | gtggtcctcg | 3540 |
| ccgccccctgg | ccacatcgcc | cttcctctt | acacctggt | acttcgaat | ttttcagagc | 3600 |
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| agggacatca | cccacatgcc | ccagctctcg | gaccctgcag | ctctgtgtcc | caggccacag | 3720 |
| caaagggtctg | ttgaacccct | ccctccattc | ccagttatct | gggtctctg | gattttctg | 3780 |
| tttcttgaat | caggctctgc | tttccctcta | gcaactacag | gcagcctctg | acagtgcgc | 3840 |
| tttacttgc | ttctgcagca | attacatgt | tccttttgc | ccttgccttca | tttccctccc | 3900 |
| tctcccagct | cctggcccct | ggcccaggggc | ccctcttgct | gttttaccc | ttgttccttg | 3960 |

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| gggcctagta | cccagcaagc | acccaaatgg | gggagggtttt | gggatgagag | gaggaaacgt | 4020 |
| gtatacctgt | aacatctgg | ggctcttccc | ccagaagttt | gtgttcatac | ataattgttt | 4080 |
| tccacgctgg | atcataatgt | gacgtgcagt | tctgcccgt | gctggggagc | cacatgaagc | 4140 |
| ttccctggc | taacttgcta | ccccgcagca | atcccagtgt | ggccgtctgc | ttgctaaaaaa | 4200 |
| atggatctgt | gctcatctgt | aaaaaaaaaa | aaaaaaaaaa | aaaa | | 4244 |

<210> 5
<211> 885
<212> PRT
<213> Homo sapiens

<400> 5

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Gly | Glu | Gly | Met | Arg | Met | Ala | Ala | Thr | Ala | Trp | Ala | Gly | Leu | Gln |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Pro | Leu | Pro | Thr | Leu | Cys | Pro | Ala | Val | Arg | Thr | Gly | Leu | Tyr |
| 20 | | | | | 25 | | | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Arg | Asp | Gln | Ala | His | Ala | Glu | Arg | Trp | Ala | Met | Thr | Ser | Glu | Thr |
| 35 | | | | | | 40 | | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Gly | Ser | His | Cys | Ala | Arg | Met | Leu | Arg | Arg | Arg | Ala | Gln | Glu |
| 50 | | | | | | 55 | | | | | | 60 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asp | Ser | Thr | Val | Leu | Ile | Asp | Val | Ser | Pro | Pro | Glu | Ala | Glu | Lys |
| 65 | | | | | 70 | | | | 75 | | | 80 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Gly | Ser | Tyr | Gly | Ser | Thr | Ala | His | Ala | Ser | Glu | Pro | Gly | Gly | Gln |
| 85 | | | | | | 90 | | | | | | 95 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Ala | Ala | Cys | Arg | Ala | Gly | Ser | Pro | Ala | Lys | Pro | Arg | Ile | Asp |
| 100 | | | | | | 105 | | | | | | 110 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Val | Leu | Val | Trp | Glu | Glu | Asp | Leu | Lys | Leu | Asp | Arg | Gln | Gln | Asp |
| 115 | | | | | | 120 | | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Ala | Arg | Asp | Arg | Thr | Asp | Met | His | Arg | Thr | Trp | Arg | Glu | Thr |
| 130 | | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Asp | Asn | Leu | Arg | Ala | Ala | Gly | Leu | Cys | Val | Asp | Gln | Gln | Asp |
| 145 | | | | | | 150 | | | | 155 | | | 160 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Asp | Gly | Asn | Thr | Thr | Val | His | Tyr | Ala | Leu | Leu | Ser | Ala | Ser |
| 165 | | | | | | 170 | | | | | | | 175 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Ala | Val | Leu | Cys | Tyr | Tyr | Ala | Glu | Asp | Leu | Arg | Leu | Lys | Leu | Pro |
| 180 | | | | | | 185 | | | | | | 190 | | | |

Leu Gln Glu Leu Pro Asn Gln Ala Ser Asn Trp Ser Ala Gly Leu Leu
195 200 205

Ala Trp Leu Gly Ile Pro Asn Val Leu Leu Glu Val Val Pro Asp Val
210 215 220

Pro Pro Glu Tyr Tyr Ser Cys Arg Phe Arg Val Asn Lys Leu Pro Arg
225 230 235 240

Phe Leu Gly Ser Asp Asn Gln Asp Thr Phe Phe Thr Ser Thr Lys Arg
245 250 255

His Gln Ile Leu Phe Glu Ile Leu Ala Lys Thr Pro Tyr Gly His Glu
260 265 270

Lys Lys Asn Leu Leu Gly Ile His Gln Leu Leu Ala Glu Gly Val Leu
275 280 285

Ser Ala Ala Phe Pro Leu His Asp Gly Pro Phe Lys Thr Pro Pro Glu
290 295 300

Gly Pro Gln Ala Pro Arg Leu Asn Gln Arg Gln Val Leu Phe Gln His
305 310 315 320

Trp Ala Arg Trp Gly Lys Trp Asn Lys Tyr Gln Pro Leu Asp His Val
325 330 335

Arg Arg Tyr Phe Gly Glu Lys Val Ala Leu Tyr Phe Ala Trp Leu Gly
340 345 350

Phe Tyr Thr Gly Trp Leu Leu Pro Ala Ala Val Val Gly Thr Leu Val
355 360 365

Phe Leu Val Gly Cys Phe Leu Val Phe Ser Asp Ile Pro Thr Gln Glu
370 375 380

Leu Cys Gly Ser Lys Asp Ser Phe Glu Met Cys Pro Leu Cys Leu Asp
385 390 395 400

Cys Pro Phe Trp Leu Leu Ser Ser Ala Cys Ala Leu Ala Gln Ala Gly
405 410 415

Arg Leu Phe Asp His Gly Gly Thr Val Phe Phe Ser Leu Phe Met Ala
420 425 430

Leu Trp Ala Val Leu Leu Leu Glu Tyr Trp Lys Arg Lys Ser Ala Thr
435 440 445

Leu Ala Tyr Arg Trp Asp Cys Ser Asp Tyr Glu Asp Thr Glu Glu Arg
450 455 460

Pro Arg Pro Gln Phe Ala Ala Ser Ala Pro Met Thr Ala Pro Asn Pro
465 470 475 480

Ile Thr Gly Glu Asp Glu Pro Tyr Phe Pro Glu Arg Ser Arg Ala Arg
485 490 495

Arg Met Leu Ala Gly Ser Val Val Ile Val Val Met Val Ala Val Val
500 505 510

Val Met Cys Leu Val Ser Ile Ile Leu Tyr Arg Ala Ile Met Ala Ile
515 520 525

Val Val Ser Arg Ser Gly Asn Thr Leu Leu Ala Ala Trp Ala Ser Arg
530 535 540

Ile Ala Ser Leu Thr Gly Ser Val Val Asn Leu Val Phe Ile Leu Ile
545 550 555 560

Leu Ser Lys Ile Tyr Val Ser Leu Ala His Val Leu Thr Arg Trp Glu
565 570 575

Met His Arg Thr Gln Thr Lys Phe Glu Asp Ala Phe Thr Leu Lys Val
580 585 590

Phe Ile Phe Gln Phe Val Asn Phe Tyr Ser Ser Pro Val Tyr Ile Ala
595 600 605

Phe Phe Lys Gly Arg Phe Val Gly Tyr Pro Gly Asn Tyr His Thr Leu
610 615 620

Phe Gly Val Arg Asn Glu Glu Cys Ala Ala Gly Gly Cys Leu Ile Glu
625 630 635 640

Leu Ala Gln Glu Leu Leu Val Ile Met Val Gly Lys Gln Val Ile Asn
645 650 655

Asn Met Gln Glu Val Leu Ile Pro Lys Leu Lys Gly Trp Trp Gln Lys
660 665 670

Phe Arg Leu Arg Ser Lys Lys Arg Lys Ala Gly Ala Ser Ala Gly Ala

675

680

685

Ser Gln Gly Pro Trp Glu Asp Asp Tyr Glu Leu Val Pro Cys Glu Gly
690 695 700

Leu Phe Asp Glu Tyr Leu Glu Met Val Leu Gln Phe Gly Phe Val Thr
705 710 715 720

Ile Phe Val Ala Ala Cys Pro Leu Ala Pro Leu Phe Ala Leu Leu Asn
725 730 735

Asn Trp Val Glu Ile Arg Leu Asp Ala Arg Lys Phe Val Cys Glu Tyr
740 745 750

Arg Arg Pro Val Ala Glu Arg Ala Gln Asp Ile Gly Ile Trp Phe His
755 760 765

Ile Leu Ala Gly Leu Thr His Leu Ala Val Ile Ser Asn Ala Phe Leu
770 775 780

Leu Ala Phe Ser Ser Asp Phe Leu Pro Arg Ala Tyr Tyr Arg Trp Thr
785 790 795 800

Arg Ala His Asp Leu Arg Gly Phe Leu Asn Phe Thr Leu Ala Arg Ala
805 810 815

Pro Ser Ser Phe Ala Ala Ala His Asn Arg Thr Cys Arg Tyr Arg Ala
820 825 830

Phe Arg Asp Asp Asp Gly His Tyr Ser Gln Thr Tyr Trp Asn Leu Leu
835 840 845

Ala Ile Arg Leu Ala Phe Val Ile Val Phe Glu Val Ala Glu Ala Pro
850 855 860

Ala Gly Ser Pro Ile His Gly Met Arg Pro Arg Pro Cys Ala Leu Pro
865 870 875 880

Asn Ser Ser Thr Trp
885